



INDEX TO VOLUME 24

Volume 24, Number 1
1994

COMMUNICATED PAPERS

C.Z. Xiao, H.Z. Lian and X.L. Liu: Analysis of Microstructure of Hardened Cement Paste by Finite Element Method	1
S.E. Hussain, Rasheeduzzafar and A.S. Al-Gahtani: Influence of Sulfates on Chloride Binding in Cements	8
D.N. Winslow, M.D. Cohen, D.P. Bentz, K.A. Snyder and E.J. Garboczi: Percolation and Pore Structure in Mortars and Concrete	25
P. Gu, Y. Fu, P. Xie and J.J. Beaudoin: A Method for Evaluating the Corrosion Potential of a Cement Slurry to Reinforcing Steel	38
Ch. Ftikos and D. Kiatos: The Effect of Chlorides on the Formation of Belite and Alinite Phase	49
K. Kobayashi, K. Suzuki and Y. Uno: Carbonation of Concrete Structures and Decomposition of C-S-H ..	55
W. Prince, R. Perami and M. Espagne: Une Nouvelle Approche du Mechanisme de la Reaction Alkali-Carbonate	62
J. Duchesne and M.A. Bérubé: The Effectiveness of Supplementary Cementing Materials in Suppressing Expansion due to ASR: Another Look at the Reaction Mechanisms. Part 1: Concrete Expansion and Portlandite Depletion	73
A. Nielson: Development of Alkali Silica Reactions in Concrete Structures with Time	83
P. Gu, P. Xie, Y. Fu and J.J. Beaudoin: A.C. Impedance Phenomena in Hydrating Cement Systems: Frequency Dispersion Angle and Pore Size Distribution	86
P. Xie, P. Gu, Y. Fu and J.J. Beaudoin: A.C. Impedance Phenomena in Hydrating Cement Systems: Detectability of the High Frequency Arc	89
P. Gu, P. Xie, Y. Fu and J.J. Beaudoin: A.C. Impedance Phenomena in Hydrating Cement Systems: The Drying-Rewetting Process	92
M.D. Cohen, A. Goldman and W.-F. Chen: The Role of Silica Fume in Mortar: Transition Zone versus Bulk Paste Modification	95

REFEREED PAPERS

A. Jarosinski: Properties of Anhydrite Cement Obtained from Apatite Phosphogypsum	99
M.Y.A. Mollah, T.R. Hess and D.L. Cocke: Surface and Bulk Studies of Leached and Unleached Fly Ash Using XPS, SEM, EDS and FTIR Techniques	109
M. Deng and M. Tang: Formation and Expansion of Ettringite Crystals	119
A.A. Klyusov: 3CaO-SiO ₂ Hydration under Decreased Temperatures	127
X. Shen, S. Yan, X. Wu, M. Tang and L. Yang: Immobilization of Simulated High Level Wastes into AASC Waste Form	133
S.L. Mak, M.M. Attard, D.W.S. Ho and P. LeP. Darvall: Cross-Sectional Strength Gradients in High Strength Concrete Columns	139
L. Tong and N. Yang: Hydration Products of Calcium Aluminoferrite in the Presence of Gypsum	150
D. Li and X. Wu: A Study on the Application of Vacuum Microwave Composite Dewatering Technique in Concrete Engineering	159
Y. Abdel-Jawad and M. Al-Qudah: The Combined Effect of Water and Temperature on the Strength of Sulfur Concrete	165
T. Nishikawa and K. Suzuki: Chemical Conversion of C-S-H in Concrete	176

DISCUSSIONS

D. Bonen	183
Z. Hong and D. Darwin	186
R. Le Roy and F. de Larrard	189
A.U. Nilsen and P.J.M. Monteiro	194
NEWS ITEMS	199

Volume 24, Number 2 1994

COMMUNICATED PAPERS

H.T. Cao, L. Bucea and V. Sirivivatnanon: Influence of Binder Type on Anodic Dissolution of Steel Embedded in Cement Pastes	203
A. Katz and A. Bentur: Mechanical Properties and Pore Structure of Carbon Fiber Reinforced Cementitious Composites	214
J. Duchesne and M.A. Berubé: The Effectiveness of Supplementary Cementing Materials in Suppressing Expansion Due to ASR: Another Look at the Reaction Mechanisms. Part 2: Pore Solution Chemistry	221
P. Gu, Y. Fu, P. Xie and J.J. Beaudoin: Characterization of Surface Corrosion of Reinforcing Steel in Cement Paste by Low Frequency Impedance Spectroscopy	231
V.A. Chio, P.J.M. Monteiro and L.A. Demsetz: The Rheology of Fresh Cement Paste Containing Polysaccharide Gums	243
N.M.P. Low and J.J. Beaudoin: The Flexural Toughness and Ductility of Portland Cement-Based Binders Reinforced with Wollastonite Micro-Fibres	250
I. Nerád, S. Sausová and L. Stevula: The CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O System Equilibrium States	259
Y. Fu, P. Xie, P. Gu and J.J. Beaudoin: Characteristics of Shrinkage Compensating Expansive Cement Containing a Pre-Hydrated High Alumina Cement-Based Expansive Additive	267
K.G. Babu and G.S.N. Rao: Early Strength Behaviour of Fly Ash Concretes	277
J. Bensted: Effects of Storage Upon the Cementing Properties of Class G Oilwell Cement Plus 8% Bentonite Blends	285

REFEREED PAPERS

I. Masood and S.K. Agarwal: Effect of Various Superplasticizers on Rheological Properties of Cement Paste and Mortars	291
T.R. Naik, S.S. Singh and M.M. Hossain: Abrasion Resistance of Concrete as Influenced by Inclusion of Fly Ash	303
K.K. Sagoe-Crentsil, F.P. Glasser and V.T. Yilmaz: Corrosion Inhibitors for Mild Steel: Stannous Tin (SnII) in Ordinary Portland Cement	313
J.H. Chen, Y.Y. Wang, C.C. Wan and D.C. Liou: MAS/NMR Studies of the Hydration Process of β -C ₂ S in the Presence of Chromium	319
M.A. Issa and A.M. Hammad: Assessment and Evaluation of Fractal Dimension of Concrete Fracture Surface Digitized Images	325
E.L. Rayment and A.J. Majumdar: Microanalysis of High-Alumina Cement Clinker and Hydrated HAC/Slag Mixtures	335
P. Arjunan and A. Kumar: Rapid Techniques for Determination of Free Lime and Free Magnesia in Cement Clinker and Portlandite in Hydrates	343
A.M. Alshamsi: Temperature Rise Inside Pastes During Hydration in Hot Climates	353
K. Torii and M. Kawamura: Effects of Fly Ash and Silica Fume on the Resistance of Mortar to Sulfuric Acid and Sulfate Attack	361

DISCUSSIONS

O.S.B. Al-Amoudi	371
D. Bonen	373
Z. Xu and S. Chandra	375
C. Andrade	380
J. Bensted	385
S.J. Way and A. Shayan	387
W. Ma, P.W. Brown and D. Shi	389
J. Bensted	391
J. Beretka, B. de Vito, L. Santoro, N. Sherman and G.L. Valenti	393
J. Bensted	394
W. Prince and R. Perami	396
NEWS ITEMS	399

Volume 24, Number 3 1994

COMMUNICATED PAPERS

R. Francois, G. Arliguie and D. Bardy: Electrode Potential Measurements of Concrete Reinforcement for Corrosion Evaluation	401
L. Stevula, J. Madej, J. Kozánková and J. Madejová: Hydration Products at the Blastfurnace Slag Aggregate - Cement Paste Interface	413
K.J. Folliard, M. Ohta, E. Rathje and P. Collins: Influence of Mineral Admixtures on Expansive Cement Mortars	424
P. Gu, P. Xie, J.J. Beaudoin and C. Jolicoeur: Investigation of the Retarding Effect of Superplasticizers on Cement Hydration by Impedance Spectroscopy and Other Methods	433
A.S. El-Dieb and R.D. Hooton: Evaluation of the Katz-Thompson Model for Estimating the Water Permeability of Cement-Based Materials from Mercury Intrusion Porosimetry Data	443
J. Duchesne and M.A. Bérubé: Evaluation of the Validity of the Pore Solution Expression Method from Hardened Cement Pastes and Mortars	456
R.L. Day and C. Shi: Effect of Initial Water Curing on the Hydration of Cements Containing Natural Pozzolan	463
L. Curtil and M.F. Habita: Study of the Alkali-Aggregate Reaction on Concrete Prisms	473
J. Bensted: Effect of Different Water Levels on the Properties of HSR Class G Cement	479
G. Frigione and R. Sersale: Blastfurnace Cement Mortars Manufactured with Fresh Granulated and Weathered Slags	483
P. Paulini: A Through Solution Model for Volume Changes of Cement Hydration	488
I. Maki, T. Tanioka, S. Ito, K. Maeda and K. Fukuda: Texture and Grindability of the Dust Component in Portland Cement Clinker	497

REFEREED PAPERS

S. Stürmer, A. Müller and J. Stark: Hydration of C_3A and $C_2(A,F)$ Separated from Sulphate-Resisting and White Portland Cement under Conditions of Normal Hardening and Heat Treatment	503
F. Häußler, F. Eichhorn and H. Baumbach: Small-Angle Neutron Scattering on Hardened Cement Paste and Various Substances for Hydration	514
I. Masood, S.K. Agarwal and U.N. Sinha: Effect of Various Admixtures on the Particle Size Distribution of Cement Determined with the Aid of Laser Particle Analyser	527
M. Frias, M.I. Sánchez de Rojas, N. Garcia and M.P. Luxán: Contribution of Toxic Elements: Hexavalent Chromium in Materials Used in the Manufacture of Cement	533
A.M. Dunster, D.ap. Kendrick and J.R. Parsonage: The Mechanism of Hardening and Hydration of White Portland Cement Admixed with Salicylaldehyde	542

V. Pavlík: Corrosion of Hardened Cement Paste by Acetic and Nitric Acids. Part I: Calculation of Corrosion Depth	551
D. Damidot, S. Stronach, A. Kindness, M. Atkins and F.P. Glasser: Thermodynamic Investigation of the $\text{CaO-Al}_2\text{O}_3\text{-CaCO}_3\text{-H}_2\text{O}$ Closed System at 25°C and the Influence of Na_2O	563
O.P. Shrivastava and S. Komarneni: Cesium Selectivity of (Al+Na)-Substituted Tobermorite	573
V.L. Bonavetti and E.F. Irassar: The Effect of Stone Dust Content in Sand	580
DISCUSSIONS	
J. Bensted	591
N.N. Jakobsen	593
J. Bensted	595
NEWS ITEMS	597
NEW BOOKS	600

Volume 24, Number 4
1994

COMMUNICATED PAPERS

Y. Erdogan, A. Demirbas and H. Genc: Partly-Refined Chemical By-Product Gypsums as Cement Additives	601
R.E. Beddoe and K. Lang: Effect of Moisture on Fractal Dimension and Specific Surface of Hardened Cement Paste by Small-Angle X-Ray Scattering	605
P. Barkakati, D. Bordoloi and P.Ch. Borthakur: Paddy Husk as Raw Material and Fuel for Making Portland Cement	613
M. Kawamura, K. Takeuchi and A. Sugiyama: Mechanisms of Expansion of Mortars Containing Reactive Aggregate in NaCl Solution	621
N. Hearn, R.J. Detwiler and C. Sframeli: Water Permeability and Microstructure of Three Old Concretes	633
J.M. Torrenti, C. Boulay and C. Puch: The Young's Modulus of Concrete Reconsidered	641
N.M.P. Low and J.J. Beaudoin: Mechanical Properties and Microstructure of High Alumina Cement-Based Binders Reinforced with Natural Wollastonite Micro-Fibres	650
M.A. Mustafa and K.M. Yusof: Atmospheric Chloride Penetration into Concrete in Semi-Tropical Marine Environment	661
M.L. Allan and L.E. Kukacka: Permeability and Microstructure of Plain and Polypropylene Fibre Reinforced Grouts	671
P. Gu, Y. Fu, P. Xie and J.J. Beaudoin: A Study of the Hydration and Setting Behaviour of OPC-HAC Pastes	682
S. Igarashi and M. Kawamura: Effects of a Size in Bundled Fibers on the Interfacial Zone Between the Fibers and the Cement Paste Matrix	695
P. Xie, P. Gu, Y. Fu and J.J. Beaudoin: A.C. Impedance Phenomena in Hydrating Cement Systems: Origin of the High Frequency Arc	704

REFEREED PAPERS

C.D. Hills, C.J. Sollars and R. Perry: Solidification of Hazardous Wastes Containing Cyanide	707
M.M. Ali, S. Gopal and S.K. Handoo: Studies on the Formation Kinetics of Calcium Sulpho-aluminate	715
P. Krstulovic, N. Kamenic and K. Popovic: A New Approach in Evaluation of Filler Effect in Cement. I. Effect on Strength and Workability of Mortar and Concrete	721
M.P. Luxán, M. Frías and F. Dorrego: Potential Expansion of Cement Mortars in the Presence of K_2SO_4 and Pozzolan	728

J.G. Wang: Sulfate Attack on Hardened Cement Paste	735
A. Zmikić and R. Krstulović: Interaction of Ionic Species in Hydrated Cement with a Super-plasticizer Admixture	743
A.A. Kyi and B. Batchelor: An Electrical Conductivity Method for Measuring the Effects of Additives on Effective Diffusivities in Portland Cement Pastes	752
K. Kolakowski, W. De Preter, D. Van Gemert, L. Lamberts and F. Van Rickstal: Low Shrinkage Cement Based Building Components	765
M.V. Munoz, F.G. García, M.G. Rodríguez and M.C.G. Vilchez: Influence of the Mineralogical Composition, Specific Surface Area and Strains - Crystallite Size of Alite on the Compressive Mechanical Strength of Portland Mortars. I. Clinkers of Low Tricalcium Aluminate Contents	776
J. Monzó, J. Payá and E. Peris-Mora: A Preliminary Study of Fly Ash Granulometric Influence on Mortar Strength	791
DISCUSSIONS	
W.G. Hime	797
W.G. Hime and S. Marusin	798
NEWS ITEMS	799

**Volume 24, Number 5
1994**

COMMUNICATED PAPERS

D. Knöfel and J.-F. Wang: Properties of Three Newly Developed Quick Cements	801
I.G. Richardson, A.R. Brough, G.W. Groves and C.M. Dobson: The Characterization of Hardened Alkali-Activated Blast-Furnace Slag Pastes and the Nature of the Calcium Silicate Hydrate (C-S-H) Phase	813
I. Petrov and E. Schlegel: Application of Automatic Image Analysis for the Investigation of Autoclaved Aerated Concrete Structure	830
D. Lange, H.M. Jennings and S.P. Shah: Image Analysis Techniques for Characterization of Pore Structure of Cement-Based Materials	841
A.S. El-Dieb and R.D. Hooton: A High Pressure Triaxial Cell with Improved Measurement Sensitivity for Saturated Water Permeability of High Performance Concrete	854
R. Frey, T. Balogh and G.L. Balázs: Kinetic Method to Analyse Chloride Diffusion in Various Concretes	863
N.M.P. Low and J.J. Beaudoin: Stability of Portland Cement-Based Binders Reinforced with Natural Wollastonite Micro-Fibres	874
R.J. Hand: The Kinetics of Hydration of Calcium Sulphate Hemihydrate: A Critical Comparison of the Models in the Literature	885
P. Raivio and L. Sarvaranta: Microstructure of Fibre Mortar Composites under Fire Impact - Effect of Polypropylene and Polyacrylonitrile Fibres	896
S. Chatterji: Transportation of Ions Through Cement Based Materials. Part 1. Fundamental Equations and Basic Measurement Techniques	907

REFEREED PAPERS

T.R. Naik, S.S. Singh and M.M. Hossain: Permeability of Concrete Containing Large Amounts of Fly Ash	913
F. Guirado, S. Gali and J.S. Chinchon: The Crystallography of $CA_{1-x}F_x$ Using X-Ray Powder Diffraction Techniques	923
P. Krstulović, N. Kamenic and K. Popovic: A New Approach in Evaluation of Filler Effect in Cement. II. The Effect of Filler Fineness and Blending Procedure	931
A.N. Scian and E. Pereira: Mechanochemical Activation of High Alumina Cements - Hydration and Thermomechanic Behaviour. II.	937

R. Krstulovic, A. Zmikić and P. Dabić: Examination of Reaction Between the NSF Superplasticizer and Cement	948
D. Bonen, T.J. Johnson and S.L. Sarkar: Characterization of Principal Clinker Minerals by FT-Raman Microspectroscopy	959
A.M. Sharara, H. El-Didamony, E. Ebied and A. El-Aleem: Hydration Characteristics of β -C ₂ S in the Presence of Some Pozzolan Materials	966
B.J. Addis and M.B. Alexander: Cement-Saturation and Its Effects on the Compressive Strength and Stiffness of Concrete	975
F.A. Rodrigues and I. Joeke: Water Reducing Agents of Low Molecular Weight: Suppression of Air Entrainment and Slump Loss by Addition of an Organic Solvent	987
DISCUSSION	
J. Bensted	993
NEWS ITEMS	995

**Volume 24, Number 6
1994**

COMMUNICATED PAPERS

F. de Larrard and T. Sedran: Optimization of Ultra-High-Performance Concrete by the Use of a Packing Model	997
S. Chatterji: Transportation of Ions Through Cement Based Materials. Part 2. Adaptation of the Fundamental Equations and Relevant Comments	1010
Y. Fu, P. Xie, P. Gu and J.J. Beaudoin: Significance of Pre-Existing Cracks on Nucleation of Secondary Ettringite in Steam Cured Cement Paste	1015
D.N. Winslow, J.M. Bukowski and J.F. Young: The Early Evolution of the Surface of Hydrating Cement	1025
S.-D. Wang, K.L. Scrivener and P.L. Pratt: Factors Affecting the Strength of Alkali-Activated Slag	1033
D.P. Bentz and P.E. Stutzman: Evolution of Porosity and Calcium Hydroxide in Laboratory Concretes Containing Silica Fume	1044
S. Chatterji: Simultaneous Chloride Removal and Realkalinization of Old Concrete Structures	1051
P. Gu, Y. Fu, P. Xie and J.J. Beaudoin: Effect of Uneven Porosity Distribution in Cement Paste and Mortar on Reinforcing Steel Corrosion	1055
S. Sahu and J. Majling: Preparation of Sulphoaluminate Belite Cement from Fly Ash	1065
C.A. Milanese and O.R. Batic: Alkali Reactivity of Dolomitic Rocks from Argentina	1073
Y. Fu, P. Gu, P. Xie and J.J. Beaudoin: Development of Eigenstress Due to Drying Shrinkage in Hardened Portland Cement Pastes: Thermomechanical Analysis	1085
M. Ichikawa, S. Ikeda and Y. Komukai: Effect of Cooling Rate and Na ₂ O Content on the Character of the Interstitial Materials in Portland Cement Clinker	1092
W.J. McCarter: A Parametric Study of the Impedance Characteristics of Cement-Aggregate Systems During Early Hydration	1097

REFEREED PAPERS

C. Qian, H. Guo and M. Tang: Mechanism of Mineral Admixture Suppressing Alkali-Silica Reaction: Part I. Corrosion Degree of Reactive Aggregate in Blended Cement Pastes and its Correlations with Expansion Value and Electric Resistance Change	1111
M. Perez-Pena and B. Mobasher: Mechanical Properties of Fiber Reinforced Lightweight Concrete Composites	1121
C. Tashiro, K. Ikeda and Y. Inoue: Evaluation of Pozzolan Activity by the Electric Resistance Measurement Method	1133

S. Diamond and S. Mindess: SEM Investigations of Fracture Surfaces Using Stereo Pairs:	
III. Fracture Surfaces of Mortars	1140
R.K. Vempati, A. Rao, T.R. Hess, D.L. Cocke and H.V. Lauer, Jr.: Fractionation and	
Characterization of Texas Lignite Class 'F' Fly Ash by XRD, TGA, FTIR, and SFM	1153
Y.F. Houst and F.H. Wittmann: Influence of Porosity and Water Content on the Diffusivity of	
CO ₂ and O ₂ Through Hydrated Cement Paste	1165
M.T. Blanco, S. Garcia, S. Giménez, A. Palomo, F. Puertas and T. Vázquez: Studies about a	
Sulphate Resistant Cement. Influence of Admixtures	1177
M. Tan, J. Lu and K. Wu: The Toughness of Nylon Fibre Mats Laminated MDF Cement Composites ...	1185
G.W. Groves and I.G. Richardson: Microcrystalline Calcium Hydroxide in Pozzolanic Cement	
Pastes	1191
NEWS ITEMS	1197

Volume 24, Number 7
1994

COMMUNICATED PAPERS

M.U.K. Afridi, Z.U. Chaudhary, Y. Ohama, K. Demura and M.Z. Iqbal: Strength and	
Elastic Properties of Powdered and Aqueous Polymer-Modified Mortars	1199
C. Andrade, M.A. Sanjuán, A. Recuero and O. Río: Calculation of Chloride Diffusivity in	
Concrete from Migration Experiments, in Non-Steady-State Conditions	1214
S. Chatterji: Transportation of Ions Through Cement Based Materials. Part 3. Experimental	
Evidence for the Basic Equations and Some Important Deductions	1229
S. Kumar and C.V.S. Kameswara Rao: Effect of Sulfates on the Setting Time of Cement and	
Strength of Concrete	1237
D. Trejo, P. Monteiro, G. Thomas and X. Wang: Mechanical Properties and Corrosion	
Susceptibility of Dual-Phase Steel in Concrete	1245
D.C. Hughes and N.L. Crossley: Pore Structure Characterisation of GGBS/OPC Grouts Using	
Solvent Techniques	1255
J. Elsen, N. Lens, J. Vyncke, T. Aarre, D. Quenard and V. Smolej: Quality Assurance and	
Quality Control of Air Entrained Concrete	1267
M.G. Alexander: Effects of Aging on Mechanical Properties of the Interfacial Zone Between	
Cement Paste and Rock	1277
X. Ye, N. Wang and S. Mindess: Effect of Loading Rate and Support Conditions on the Mode	
of Failure of Prestressed Concrete Railroad Ties Subjected to Impact Loading	1286
A.K. Tamimi: The Effects of a New Mixing Technique on the Properties of the Cement Paste-	
Aggregate Interface	1299
S. Ong and S. Diamond: Measurement of Immediate ASR Expansion of Steam Cured Mortar Bars ...	1305
X. Feng, X. Min and C. Tao: Study on the Structure and Characteristic of Dicalcium Silicate	
with Quantum Chemistry Calculations	1311

REFEREED PAPERS

O. Batic, P. Malza and J. Sota: Alkali Silica Reaction in Basaltic Rocks - NBRI Method	1317
C. Qian, H. Guo, X. Lan and M. Tang: Mechanism of Mineral Admixture Suppressing	
Alkali-Silica Reaction: Part II. Retardation of the Transport of Na, K and OH Ions in Pore	
Structure Caused by Acidic Action of Mineral Admixture Particles in Matrix	1327
M.T. Tam and C.C. Weng: A Study of Acoustic Emission Characteristics of Fly Ash Cement	
Mortar Under Compression	1335
R.S. Gollop and H.F.W. Taylor: Microstructural and Microanalytical Studies of Sulfate Attack.	
II. Sulfate-Resisting Portland Cement: Ferrite Composition and Hydration Chemistry	1347
P.J. Tumidajski and M.L. Thomson: Influence of Cadmium on the Hydration of C₃A	1359

J.N. Enevoldsen, C.M. Hansson and B.B. Hope: The Influence of Internal Relative Humidity on the Rate of Corrosion of Steel Embedded in Concrete and Mortar	1373
X. Chen, R. Zou and X. Chen: Kinetic Study of Ettringite Carbonation Reaction	1383
S.H. Alsayed and M.A. Amjad: Effect of Curing Conditions on Strength, Porosity, Absorptivity, and Shrinkage of Concrete in Hot and Dry Climate	1390
NEWS ITEMS	1399
REPORT OF A CONFERENCE: Advances in Cement and Concrete	1401

Volume 24, Number 8
1994

COMMUNICATED PAPERS

S. Goñi, M ^a P. Lorenzo and J.L. Sagrera: Durability of Hydrated Portland Cement with Copper Slag Addition in NaCl+Na ₂ SO ₄ Medium	1403
J. Neubauer and H. Pöllmann: Alinite-Chemical Composition, Solid Solution and Hydration Behaviour	1413
A.U. Nilsen, P.J.M. Monteiro and O.E. Gjörv: Quality Assessment of Light Weight Aggregate	1423
Y. Fu, P. Xie, P. Gu and J.J. Beaudoin: Effect of Temperature on Sulphate Adsorption/Desorption by Tricalcium Silicate Hydrates	1428
A. Delagrave, M. Pigeon and É. Revertégat: Influence of Chloride Ions and pH Level on the Durability of High Performance Cement Pastes	1433
Ch. Malami, V. Kaloidas, G. Batis and N. Kouloumbi: Carbonation and Porosity of Mortar Specimens with Pozzolanic and Hydraulic Cement Admixtures	1444
D. Ravina and I. Soroka: Slump Loss and Compressive Strength of Concrete Made with WRR and HRWR Admixtures and Subjected to Prolonged Mixing	1455
J. Wang, R.K. Dhir and M. Levitt: Membrane Curing of Concrete: Moisture Loss	1463
V. Živica and V. Szabo: The Behaviour of Cement Composite Under Compression Load at Sulphate Attack	1475
R.L. Day and C. Shi: Influence of the Fineness of Pozzolan on the Strength of Lime Natural-Pozzolan Cement Pastes	1485
M.U.K. Afridi, Z.U. Chaudhary, Y. Ohama, K. Demura and M.Z. Iqbal: Effects of Polymer Modification on the Formation of High Sulphoaluminate or Ettringite-Type (AFt) Crystals in Polymer-Modified Mortars	1492

REFEREED PAPERS

V. Pavlík: Corrosion of Hardened Cement Paste by Acetic and Nitric Acids. Part II: Formation and Chemical Composition of the Corrosion Products Layer	1495
S. Hu: XPS Nondestructive Depth Analysis Method and its Application in Cement Based Composite Materials	1509
C.J. Warren and E.J. Reardon: The Solubility of Ettringite at 25°C	1515
J.N. Enevoldsen, C.M. Hansson and B.B. Hope: Binding of Chloride in Mortar Containing Admixed or Penetrated Chlorides	1525
T. Zhang and O.E. Gjörv: An Electrochemical Method for Accelerated Testing of Chloride Diffusivity in Concrete	1534
J.O. Odigure: Hydration of Cement Paste and Concrete from Raw Mix Containing Metallic Particles ...	1549
X. Lin, M.R. Silsbee, D.M. Roy, K. Kessler and P.R. Blankenhorn: Approaches to Improve the Properties of Wood Fiber Reinforced Cementitious Composites	1558

DISCUSSIONS

S. Chatterji	1567
D.N. Winslow, M.D. Cohen, D.P. Bentz, K.A. Snyder and E.J. Garboczi	1569
S. Chatterji	1572
J. Duchesne and M.A. Bérubé	1574
S. Chatterji	1577
J. Duchesne and M.A. Bérubé	1579
D. Constantiner	1582
M. Deng and M. Tang	1584

NEWS ITEMS	1587
------------------	------

INDEX TO VOLUME 24	1589
Key Word Index	1597
Author Index	1600

Key Word Index

- | | | |
|--|--|--------------------------------------|
| A.C. Impedance, 86, 89, 92, 704, 1097 | Applied Load, 1475 | C-S-H Decomposition, 55 |
| Abrasion Resistance, 303 | Aqueous Polymers, 1199 | C ₃ A, 503 |
| Absorptivity, 1390 | Argillaceous, 1073 | 3CaO.SiO ₂ Hydration, 127 |
| Acceleration, 1534 | Atmospheric, 661 | CO ₂ , 1165 |
| Acetic Acid, 551, 1495 | Autoclaving, 830 | Carbon Fiber Composites, 214 |
| Acidic Reaction, 1327 | | Carbonation, 55, 1444 |
| Acid Resistance, 361 | Basalt, 1317 | Cations, 743 |
| Acoustic Emission, 1335 | Belite, 49 | Cement Additives, 601 |
| Activation Energy, 715 | β-Ca ₂ SiO ₄ , 319 | Cement-Aggregate System, 1097 |
| Activity Coefficients, 1515 | β-C ₂ S, 966 | Cement Characteristics, 765 |
| Admixtures, 73, 353, 527, 1133, 1177, 1455 | Bi-Electrodes, 401 | Cement Clinker, 479 |
| Aerated Concrete, 830 | Binder Type, 203 | Cement Dispersion, 527 |
| Aging Effects, 1277 | Blast-Furnace Slag Aggregate, 413 | Cement Hydration, 488, 514, 704, 743 |
| Air Void Spacing, 1267 | Blended Cement, 1403 | |
| Alinite, 49, 1413 | Blends, 285, 1177 | Cement Minerals, 959 |
| Alkali Activated Slag, 133, 813, 1033 | Bulk Characteristics, 109 | Cement Paste, 551, 695, 841 |
| Alkali-Aggregate Reaction, 473 | Bulk Paste, 95 | Cement Paste Composites, 874 |
| Alkali-Carbonate Reaction, 62 | Bundled Fibers, 695 | Cement Properties, 601 |
| Alkali Reactivity, 1073 | By-Product Gypsum, 601 | Cement Replacement, 791 |
| Alkali-Silica Expansion, 1305 | | Cements, 937, 948 |
| Alkali-Silica Reactions, 73, 83, 221, 1111, 1317, 1327 | Cd Effect, 1359 | Cement Saturation, 975 |
| Angle Variation, 1509 | Calcium, 1229 | Cement Solidification, 707 |
| Anhydrite Cement, 99 | Calcium Aluminoferrite, 150, 923 | Cs Selectivity, 573 |
| Anodic Dissolution, 203 | Ca Hemicarboaluminate, 563 | Characterization, 1073, 1549 |
| Anomalies, 937 | Ca ₃ Al ₂ O ₆ Hydration, 1359 | Chemical Conversion, 176 |
| Anomalous Results, 1255 | Calcium Hydroxide, 1044 | Chloride Binding, 8, 1525 |
| Apatite Phosphogypsum, 99 | Ca ₂ SiO ₄ , 1311 | Chloride Diffusion, 863 |
| Application Time, 1463 | C-S-H, 1428 | Chloride Diffusivity, 1214, 1534 |
| | Calcium Sulfate Hemihydrate, 885 | Chloride Ions, 1433 |
| | Calcium Sulphoaluminate, 715 | Chloride Removal, 1051 |
| | CaO-Al ₂ O ₃ -CaSO ₄ -H ₂ O, 259 | Chlorides, 49, 661, 913, 1229 |
| | C-S-H, 176, 813 | Cr, 319 |

- Class F., 1153
- Clinker, 1092
- Clinker Features, 776
- Coarse Aggregate, 1044
- Composites, 250, 1558
- Composition, 1097, 1413
- Compound Type, 1463
- Compression, 1335
- Concentration, 1237
- Concrete, 55, 641, 661, 907, 913, 975
- Concrete Columns, 139
- Concrete Dimensions, 83
- Conduction, 948
- Conduction Calorimetry, 1025
- Cooling Rate, 1092
- Copper Slag, 1403
- Corrosion, 401, 551, 1055, 1245, 1373, 1495
- Corrosion Inhibitors, 313
- Corrosion Potential, 38
- Crystallinity, 813
- Curing Conditions, 1390
- Cyanide, 707

- Damage, 83
- Delayed Addition, 291
- Desorption, 1428
- Detectability, 92
- Dewatering, 159
- DSC, 1515
- Diffusion, 907
- Diffusion Equations, 1010
- Diffusivities, 752, 1165, 1229
- Digitized Images, 325
- Dolomite, 1073
- Drying-Rewetting, 89
- Dual-Phases, 1245
- Ductility, 250
- Durability, 1403
- Dust, 497

- Early Age, 1025
- Early Strength, 277
- Efficiency, 931
- Eigenstress, 1085
- Elastic Properties, 1199
- Electrical Conductivity, 752
- Electrochemical Extraction, 1515
- Electrochemical Method, 1534
- Electrode Potential, 401
- Equilibrium, 259
- Ettringite, 735, 1383, 1492, 1515
- Ettringite Crystals, 119
- Ettringite Nucleation, 1015
- Expansion, 73, 119, 728
- Expansion Mechanism, 621

- Failure Mode, 1286
- Ferrite, 503, 1347
- Fiber Composites, 1121
- Fiber Mortar Composites, 896
- Filler Effect, 721
- Filler Fineness, 931
- Fineness, 483
- Finite Element Method, 1
- Fluoride, 801
- Fly Ash, 109, 303, 361, 791, 913, 1065, 1455
- Fly Ash Concretes, 277
- Fly Ash Mortar, 1335
- Formation, 49, 119
- Formation Kinetics, 715
- FTIR, 1153
- FT Raman Microspectroscopy, 959
- Fractal Dimension, 325, 605
- Fracture Surface, 325, 1140
- Frequency Dispersion Angle, 86
- Fuel, 613

- Grading, 931
- Grain Size, 514
- Granulated Slag, 863
- Granulometry, 791
- Grindability, 497
- Gypsum, 150, 1065

- Hardening Mechanism, 542
- Heat, 165
- Heavy Liquid Analysis, 176
- Heterogeneity, 1055
- Hexavalent Cr, 533
- High-Alumina Cement Additive, 267
- High-Alumina Cement Clinker, 335
- High Alumina Cements, 650
- High Frequency Arc, 92, 704
- High Level Waste, 133
- High Performance Concrete, 854
- High Performance Mortars, 1140
- High Performance Pastes, 1433
- High Strength, 139
- High Volume, 303
- Hot Climates, 353
- Hydrates, 343
- Hydration, 150, 319, 353, 413, 433, 542, 682, 885, 937, 966, 1347, 1413
- Hydration Kinetics, 1549

- Image Analysis, 830, 841
- Immobilization, 133
- Impedance, 682
- Impedance Spectroscopy, 231

- Interface, 695, 1299
- Interfacial Zone, 1277
- Intergrinding, 931
- Internal Relative Humidity, 1373
- Interstitial Phases, 1092
- Ion Transport, 907, 1010, 1229
- Ion Types, 1237

- Katz-Thompson Model, 443
- Kinetic Method, 863
- Kinetics, 885, 1383

- Laminated Composites, 1185
- Laser Analyzer, 527
- Leaching, 99, 735
- Light Weight Aggregate, 1423
- Lignite Fly Ash, 1153
- Lime, 343
- Lime-Pozzolan Pastes, 1485
- Lime-Silica Cement, 1191
- Limestone, 801, 1065
- Liquid Ion Concentration, 682
- Loading Rate, 1286
- Low Molecular Weight, 987
- Low Shrinkage, 765
- Low Temperature, 127

- MDF Cements, 1185, 1509
- MAS/NMR, 319
- MgO, 343
- Manufacture, 533
- Marine Environment, 661
- Measurement Validity, 641
- Mechanical Behavior, 473
- Mechanical Properties, 214, 650, 1121, 1245, 1277
- Mechanisms, 62, 73, 1111
- Mechanochemical Activation, 937
- Membrane Curing, 1463
- Metal Particles, 1549
- Microanalysis, 1347
- Microcrystalline Ca(OH)₂, 1191
- Microhardness, 1299
- Microscopy, 473, 830
- Microstructure, 1, 633, 671, 1403, 1558, 1347
- Migration Experiments, 1214
- Mineral Admixtures, 424, 1111, 1327
- Mixing Technique, 1299
- Mixing Time, 1455
- Mixtures, 335
- Models, 885
- Moisture, 605
- Moisture Loss, 1463
- Monocarboaluminate, 563
- Morphology, 1492

- Mortar Properties, 580
 Mortars, 621, 728, 765, 776, 842, 1199, 1549
 Mortar Strength, 791
- Natural Pozzolans, 463
 Nernst Equations, 907
 New Method, 1267
 Nitric Acid, 551, 1495
 Non Steady-State, 1214
 Nylon Fiber Mats, 1185
- Oil Well Cements, 285, 479
 Old Concretes, 633, 1051
 Organic Solvent, 987
 Oxygen, 1165
- Packing Density, 997
 Pastes, 203, 243, 413, 752
 Penetration, 661
 Percolation, 25
 Permeability, 633, 671, 854, 913
 pH, 1433
 pH Effect, 1515
 Pirssonite, 62
 Plating Wastes, 707
 Polyacrylonitrile, 896
 Polymer Modification, 1492
 Polypropylene, 896
 Polypropylene Fibers, 671
 Polysaccharide Gums, 243
 Pore Diameter, 86
 Pore Distribution, 1055
 Pore Size, 463
 Pore Solution, 8, 221
 Pore Solution Expression, 456
 Pore Structure, 25, 214, 841, 1255
 Pore Volume, 463
 Porosimetry, 443
 Porosity, 433, 1044, 1165, 1390, 1444
 Portland Cement Manufacture, 613
 Portlandite, 343
 Portlandite Consumption, 1133
 K_2SO_4 , 728
 Pozzolanic Activity, 1133
 Pozzolan Fineness, 1485
 Pozzolans, 728, 966, 1444
 Precision, 1267
 Pre-Existing Cracks, 1015
 Pressure, 259
 Pressure Effect, 456
 Product Composition, 1495
 Properties, 285, 424, 1403
- Quality, 1423
 Quantum Chemistry Calculations, 1311
 Quick Cements, 801
- Railroad Ties, 1286
 Rate Decrease, 1475
 Reaction, 948
 Reaction Mechanisms, 221
 Reactive Aggregate, 621
 Re-Alkalization, 1051
 Refining, 601
 Reinforced Grouts, 671
 Reinforcement, 1055
 Resistance, 1133
 Resistivity, 1373
 Retardation, 433, 707
 Rheology, 243, 291
 Rice Husk, 613
 Rietveld Method, 923
- Salicylaldehyde, 542
 Sand, 580
 SEM, 841, 1140
 SFM, 1153
 Self-Sealing, 633
 Setting, 682
 Setting Time, 1237
 Shrinkage, 1085
 Shrinkage-Compensated Cement, 267
 Silica Fume, 25, 95, 361, 752, 1044
 Sizing, 695
 Slag, 335, 801
 Slag Granulation, 483
 Slump Loss, 1455
 Slurry Density, 479
 Small-Angle Neutron Scattering, 514
 Small Angle X-Ray Scattering, 605, 1025
 Sodium, 1229
 Na_2CO_3 , 718
 $NaCl$, 621
 Na_2O Content, 1092
 Solid Solution, 1413
 Solubilities, 563, 1515
 Solution, 743
 Solvent Exchange, 1255
 Specific Energy Dissipation, 1423
 Spectrophotometry, 948
 Stability, 874, 1335
 Steam Curing, 1015
 Steam Curing Effect, 1305
 Steel, 38, 203, 313, 1245
 Steel Reinforcement, 231
- Stereo Pairs, 1140
 Stiffness, 975
 Stone Dust, 580
 Storage, 285
 Strength, 165, 483, 721, 765, 776, 975, 1033, 1199, 1390, 1455, 1485, 1558
 Strength Gradients, 139
 Structure, 1311
 Substituted Tobermorite, 573
 Sulfate Attack, 361, 735, 1475
 Sulfate-Resisting Cement, 503, 1177, 1347
 Sulfates, 8, 1237
 Sulfoaluminate, 801
 Sulphoaluminate-Belite Cements, 1065
 Sulfur Concrete, 165
 Sulphate Adsorption, 1428
 Superplasticizers, 291, 433, 743, 948
 Support, 1286
 Suppression, 73, 1111
 Surface Area, 776, 1025
 Surface Corrosion, 231
 Surface Depth Analysis, 1509
 Surface Studies, 109
- Techniques, 343
 Temperature, 1033, 1428
 Temperature Rise, 353
 Thermodynamics, 563
 TGA, 1085, 1153
 Thermomechanical Analysis, 1085
 Through Solution Model, 488
 Tin Salts, 313
 Toughness, 250, 1121, 1558
 Toxic Elements, 533
 Transition Zone, 95
 TEM, 1191
 Triaxial Cell, 854
 TMS, 542
 Type K Cements, 424
- Ultra-High-Performance, 997
- Vacuum Microwave, 159
 Validity, 456
 Voltammetry, 38
 Volume Change, 488
 Volume Effect, 721
- Water, 165
 Water Content, 1165
 Water Curing, 463
 Waterglass, 1033

Water Level, 479
 Water Permeability, 443
 Water Reducers, 987
 Weathering, 483
 White Cement, 503, 542
 Wollastonite Fibers, 250, 650, 874

Wood Fibers, 1558
 Workability, 1299
 XRD, 923, 1153
 XRD Analysis, 735
 XPS, 1509

Young's Modulus, 641
 Zeolite Product, 1317

Author Index

Aare, T., 1267
 Abdel-Jawad, Y., 165
 Addis, B.J., 975
 Afridi, M.U.K., 1199, 1492
 Agarwal, S.K., 291, 527
 Al-Aleem, A., 966
 Al-Amoudi, O.S.B., 371
 Alexander, M.G., 975, 1277
 Al-Gahtani, A.S., 8
 Ali, M.M., 715
 Allan, M.L., 671
 Al-Qudah, M., 165
 Alsayed, S.H., 1390
 Alshamsi, A.M., 353
 Amjad, M.A., 1390
 Andrade, C., 380, 1214
 Arjunan, P., 343
 Arliguie, G., 401
 Atkins, M., 563
 Attard, M.M., 139
 Babu, K.G., 277
 Balázs, G.L., 863
 Balogh, T., 863
 Bardy, D., 401
 Barkakati, P., 613
 Batchelor, B., 752
 Batic, O.R., 1073, 1317
 Batis, G., 1444
 Baumbach, H., 514
 Beaudoin, J.J., 38, 86, 89, 92, 231, 250, 267, 433, 650, 682, 704, 874, 1015, 1055, 1085, 1428
 Beddoe, R.E., 605
 Bensted, J., 285, 385, 391, 394, 479, 591, 595, 993
 Bentur, A., 214
 Bentz, D.P., 25, 1044, 1569
 Beretka, J., 393
 Bérubé, M.A., 73, 221, 456, 1574, 1579
 Blanco, M.T., 1177
 Blankenhorn, P.R., 1558
 Bonavetti, V.L., 580

Bonen, D., 183, 373, 959
 Bordoloi, D., 613
 Borthakur, P.Ch., 613
 Boulay, C., 641
 Brough, A.R., 813
 Brown, P.W., 389
 Bucea, L., 203
 Bukowski, J.M., 1025
 Cao, H.T., 203
 Chandra, S., 375
 Chatterji, S., 907, 1010, 1051, 1229, 1567, 1572, 1577
 Chaudhary, Z.U., 1199, 1492
 Chen, J.H., 319
 Chen, W.-F., 95
 Chen, X., 1383
 Chen, X., 1383
 Chinchon, J.S., 923
 Cocke, D.L., 109, 1153
 Cohen, M.D., 25, 95, 1569
 Collins, P., 424
 Constantiner, D., 1582
 Crossley, N.L., 1255
 Curtil, L., 473

Dabic, P., 948
 Damidot, D., 563
 Darvall, P. LeP., 139
 Darwin, D., 186
 Day, R.L., 463, 1485
 Delagrave, A., 1433
 Demirbas, A., 601
 Demsetz, L.A., 243
 Demura, K., 1199, 1492
 Deng, M., 119
 De Preter, W., 765
 Detwiler, R.J., 633
 Dhir, R.K., 1463
 Diamond, S., 1140, 1305
 Dobson, C.M., 813
 Dorrego, F., 728
 Duchesne, J., 73, 221, 456, 1574, 1579
 Dunster, A.M., 542

Ebied, E., 966
 Eichhorn, F., 514
 El-Dieb, A.S., 433, 854
 El-Didamony, H., 966
 Elsen, J., 1267
 Enevoldsen, J.N., 1373, 1525
 Erdogan, Y., 601
 Espagne, M., 62
 Feng, X., 1311
 Folliard, K.J., 424
 Fúkos, Ch., 49
 Fukuda, K., 497
 Francois, R., 401
 Frey, R., 863
 Frias, M., 533, 728
 Frigione, G., 483
 Fu, Y., 38, 86, 89, 92, 231, 267, 682, 704, 1015, 1055, 1085, 1428
 Gali, S., 923
 García, F.G., 776
 Garcia, N., 533
 Garcia, S., 1177
 Garboczi, E.J., 25, 1569
 Genc, H., 601
 Ghio, V.A., 243
 Giménez, S., 1177
 Gjörv, O.E., 1423, 1534
 Glasser, F.P., 313, 563
 Goldman, A., 95
 Gollop, R.S., 1347
 Goñi, S., 1403
 Gopal, S., 715
 Groves, G.W., 813, 1191
 Gu, P., 38, 86, 89, 92, 231, 267, 433, 682, 704, 1015, 1055, 1085, 1428
 Guirado, F., 923
 Guo, H., 1111, 1327
 Habita, M.F., 473
 Hammad, A.M., 325

- Hand, R.J., 885
 Handoo, S.K., 715
 Hansson, C.M., 1373, 1525
 Häußler, F., 514
 Hearn, N., 633
 Hess, T.R., 109, 1153
 Hills, C.D., 707
 Hime, W.G., 797
 Ho, D.W.S., 139
 Hong, Z., 186
 Hooton, R.D., 443, 854
 Hope, B.B., 1373, 1525
 Hossain, M.M., 303, 913
 Houst, V.F., 1165
 Hu, S., 1509
 Hughes, D.C., 1255
 Hussain, S.E., 8

 Ichikawa, M., 1092
 Igarashi, S., 695
 Ikeda, K., 1133
 Ikeda, S., 1092
 Inoue, Y., 1133
 Iqbal, M.Z., 1199, 1492
 Irassar, E.F., 580
 Issa, M.A., 325
 Ito, S., 497

 Jakobsen, N.N., 593
 Jarosinski, A., 99
 Jennings, H.M., 841
 Joeke, I., 987
 Johnson, T.J., 959
 Jolicœur, C., 433

 Kaloidas, V., 1444
 Kamenic, N., 721, 931
 Kameswara Rao, C.V.S., 1237
 Katz, A., 214
 Kawamura, M., 361, 621, 695
 Kendrick, D.ap., 542
 Kessler, K., 1558
 Kiatos, D., 49
 Kindness, A., 563
 Klyusov, A.A., 127
 Knöfel, D., 801
 Kobayashi, K., 55
 Kolakowski, K., 765
 Komarneni, S., 573
 Komukai, Y., 1092
 Kouloumbi, N., 1444
 Kozanková, J., 413
 Krstulovic, P., 721, 931
 Krstulovic, R., 743, 948
 Kukacka, L.E., 671
 Kumar, A., 343
 Kumar, S., 1237
 Kyi, A.A., 752

 Lamberts, L., 765
 Lan, X., 1327
 Lang, K., 605
 Lange, D.A., 841
 Larrard, F. de, 189, 997
 Lauer, H.V., Jr., 1153
 Lens, N., 1267
 Le Roy, R., 189
 Levitt, M., 1463
 Li, D., 159
 Lian, H.Z., 1
 Lin, X., 1558
 Liou, D.C., 319
 Liu, X.L., 1
 Lorenzo, M.P., 1403
 Low, N.M.P., 250, 650, 874
 Lu, J., 1185
 Luxán, M.P., 533, 728

 Ma, W., 389
 Madej, J., 413
 Madejová, J., 413
 Maeda, K., 497
 Maiza, P., 1317
 Majling, J., 1065
 Majumdar, A.J., 335
 Mak, S.L., 139
 Maki, I., 497
 Malami, Ch., 1444
 Masood, I., 291, 527
 McCarter, W.J., 1097
 Milanese, C.A., 1073
 Min, D., 1584
 Min, X., 1311
 Mindess, S., 1140, 1286
 Mobasher, B., 1121
 Mollah, M.Y.A., 109
 Monteiro, P.J.M., 194, 243, 1245, 1423
 Monzó, J., 791
 Müller, A., 503
 Muñoz, M.V., 776
 Mustafa, M.A., 661

 Naik, T.R., 303, 913
 Nerád, I., 259
 Neubauer, J., 1413
 Nielson, A., 83
 Nilsen, A.U., 194, 1423
 Nishikawa, T., 176

 Odigure, J.O., 1549
 Ohama, Y., 1199, 1492
 Ohta, M., 424
 Ong, S., 1305

 Palomo, A., 1177
 Parsonage, J.R., 542

 Paulini, P., 488
 Pavlík, V., 551, 1495
 Payá, J., 791
 Perami, R., 62, 396
 Pereira, E., 937
 Perez-Pena, M., 1121
 Peris-Mora, E., 791
 Perry, R., 707
 Petrov, I., 830
 Pigeon, M., 1433
 Pöllmann, H., 1413
 Popovic, 721, 931
 Pratt, P.L., 1033
 Prince, W., 62, 396
 Puch, C., 641
 Puertas, F., 1177

 Qian, C., 1111, 1327
 Quenhard, D., 1267

 Raivio, P., 896
 Rao, A., 1153
 Rao, G.S.N., 277
 Rasheeduzzafar, 8
 Rathje, E., 424
 Ravina, D., 1455
 Rayment, D.L., 335
 Reardon, E.J., 1515
 Recuero, A., 1214
 Revertégat, É., 1433
 Richardson, I.G., 813, 1191
 Río, O., 1214
 Rodrigues, F.A., 987
 Rodríguez, M.G., 776
 Rojas, M.I. Sanchez de, 533
 Roy, D.M., 1558
 Ruizhen, Z., 1383

 Sagoe-Crentsil, K.K., 313
 Sagrera, J.L., 1403
 Sahu, S., 1065
 Sanjuán, M.A., 1214
 Santoro, L., 393
 Sarkar, S.L., 959
 Sarvaranta, L., 896
 Sausová, S., 259
 Schlegel, E., 830
 Scian, A.N., 937
 Scrivener, K.L., 1033
 Sedran, T., 997
 Sersale, R., 483
 Sframeli, C., 633
 Shah, S.P., 841
 Sharara, A.M., 966
 Shayan, A., 387
 Shen, X., 133
 Sheng, Y., 133
 Sherman, N., 393

- Shi, C., 463, 1485
 Shi, D., 389
 Shrivastava, O.P., 573
 Silsbee, M.R., 1558
 Singh, S.S., 303, 913
 Sinha, 527
 Sirivivatnanon, V., 203
 Smolej, V., 1267
 Snyder, K.A., 25, 1569
 Sollars, C.J., 707
 Soroka, I., 1455
 Sota, J., 1317
 Stark, J., 503
 Stevula, L., 259, 413
 Stronach, S., 563
 Stürmer, S., 503
 Stutzman, P.E., 1044
 Sugiyama, A., 621
 Suzuki, K., 55, 176
 Szabo, V., 1475

 Takeuchi, K., 621
 Tam, M.T., 1335
 Tamimi, A.K., 1299
 Tan, M., 1185
 Tang, M., 119, 133, 1111, 1327, 1584

 Tanioka, T., 497
 Tao, C., 1311
 Tashiro, C., 1133
 Taylor, H.F.W., 1347
 Thomas, G., 1245
 Thomson, M.L., 1359
 Tong, L., 150
 Torii, K., 361
 Torrenti, J.M., 641
 Trejo, D., 1245
 Tumidajski, P.J., 1359

 Uno, Y., 55

 Valenti, G.L., 393
 Van Gemert, D., 765
 Van Rickstal, F., 765
 Vázquez, T., 1177
 Vempati, R.K., 1153
 Vilchez, M.C.G., 776
 Vito, B. de, 393
 Vyncke, J., 1267

 Wan, C.C., 319
 Wang, J., 1463
 Wang, J.-F., 801
 Wang, J.G., 735

 Wang, N., 1286
 Wang, S.-D., 1033
 Wang, X., 1245
 Wang, Y.Y., 319
 Warren, C.J., 1515
 Way, S.J., 387
 Weng, C.C., 1335
 Whittman, F.H., 1165
 Winslow, D.N., 25, 1025, 1569
 Wu, K., 1185
 Wu, X., 133, 159

 Xie, P., 38, 86, 89, 92, 231, 267, 433, 682, 704, 1015, 1055, 1085, 1428
 Xiao, C.Z., 1
 Xu, A., 375

 Yang, N., 150
 Ye, X., 1286
 Yilmaz, V.T., 313
 Young, J.F., 1025
 Yusof, K.M., 661

 Zhang, T., 1534
 Živica, V., 1475
 Zmikić, A., 743, 948

